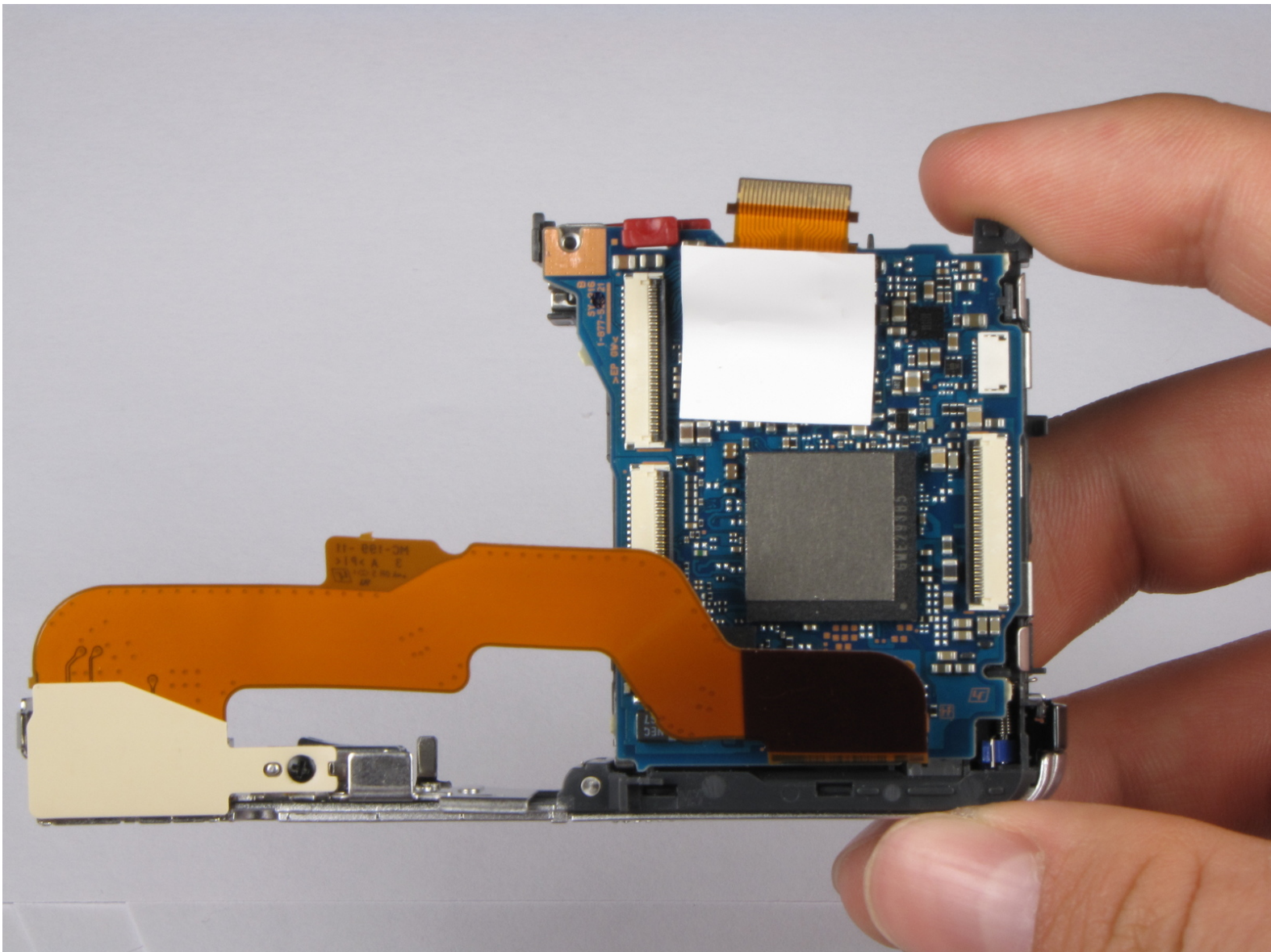




Repairing Sony Cyber-shot DSC-W290 Motherboard

This guide will walk you through the steps required to replace the Sony Cyber-shot DSC-W290's motherboard

Written By: Evan Mayer



INTRODUCTION

Thorough knowledge of disassembling the camera is necessary for replacing the motherboard.



TOOLS:

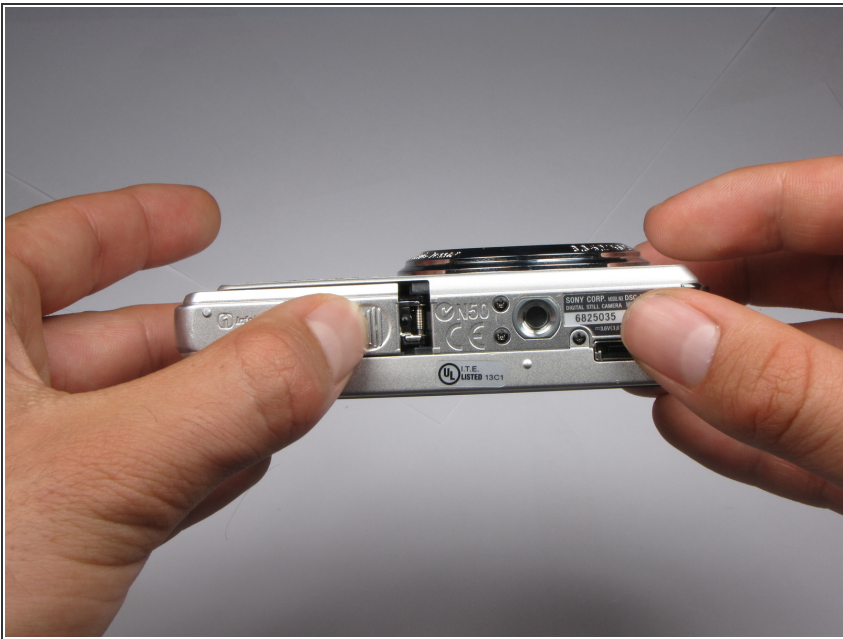
- [Soldering Workstation](#) (1)
- [Phillips #0 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [Desoldering Braid](#) (1)



PARTS:

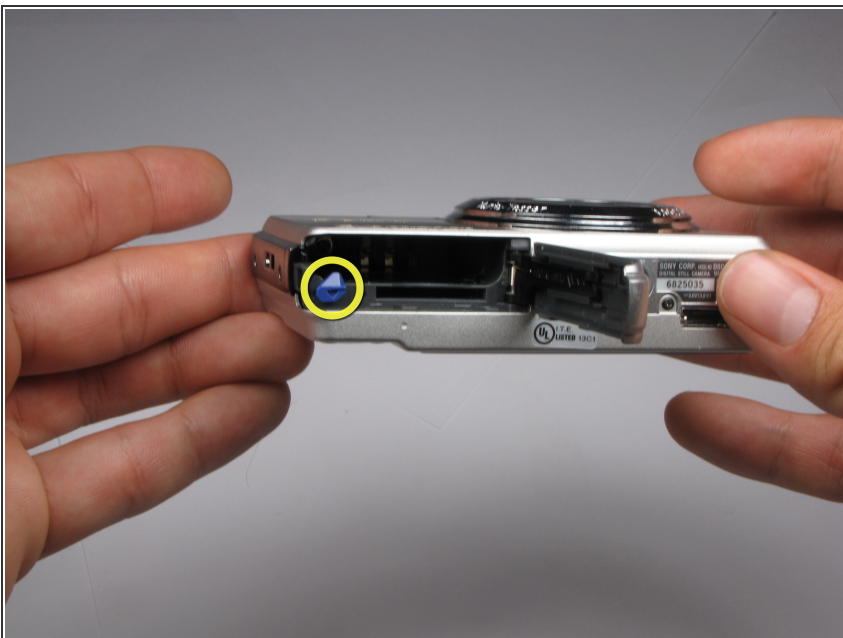
- [Sony Cyber-shot DSC-W290 Logic Board](#) (1)

Step 1 — Battery



- Find the hatch labeled "open" on the left side of the bottom of the camera.
- Slide the hatch in the direction that the arrow is pointing. The hatch will open outward on its own.

Step 2



- Slide the blue locking tab to release the battery. Slide the battery out of the camera.

Step 3 — Outer Casing



- Replace hatch and rotate camera 180 degrees. You should still be looking at the bottom of the camera.
- Remove the four 2.5mm Philips #0 screws.

Step 4



- Turn the camera so the left side-panel faces you. (It says 5x Optical Zoom)
- Remove the two 2.5mm Philips #0 screws.
- ⓘ You may have to remove the screws with a pair of tweezers when the screws are almost out.

Step 5



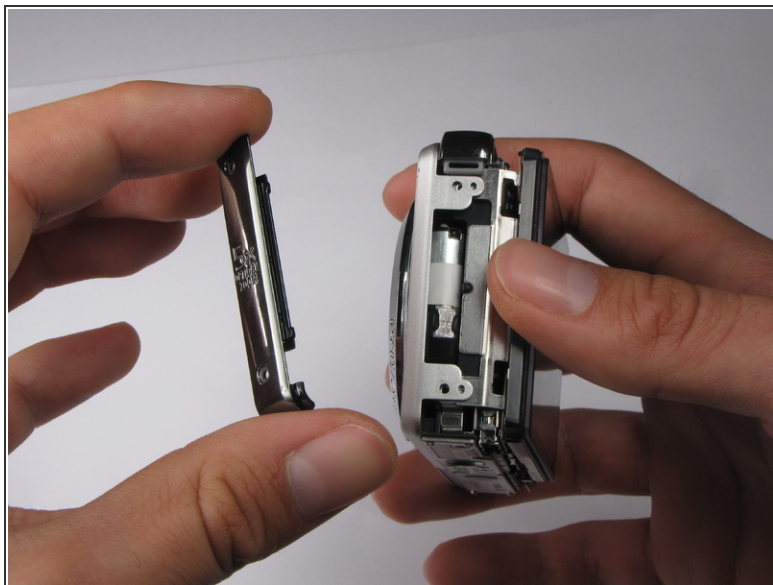
- Turn the camera so the right side faces you.
- Remove the two 2.5mm Philips #0 screws.
- ⓘ You may have to remove the screws with a pair of tweezers when the screws are almost out.

Step 6



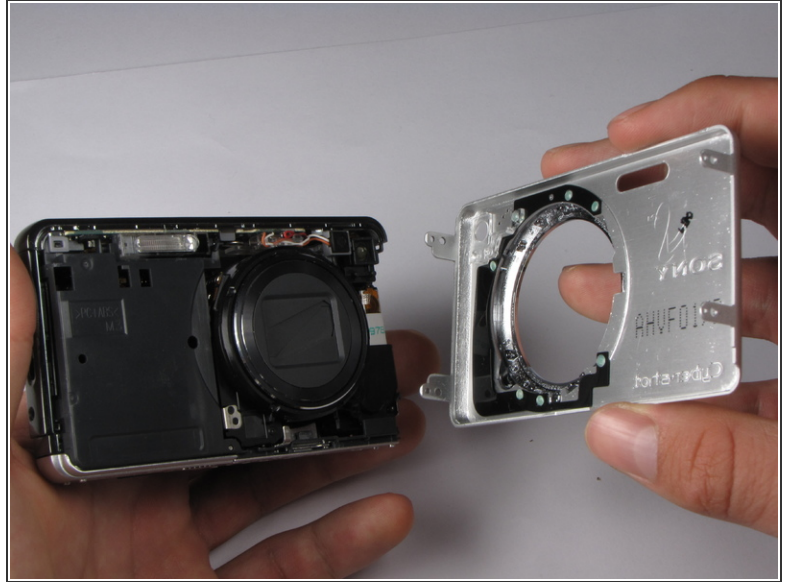
- Rotate camera so that the back is facing you.
- Pull the back casing directly away from the LCD screen.

Step 7



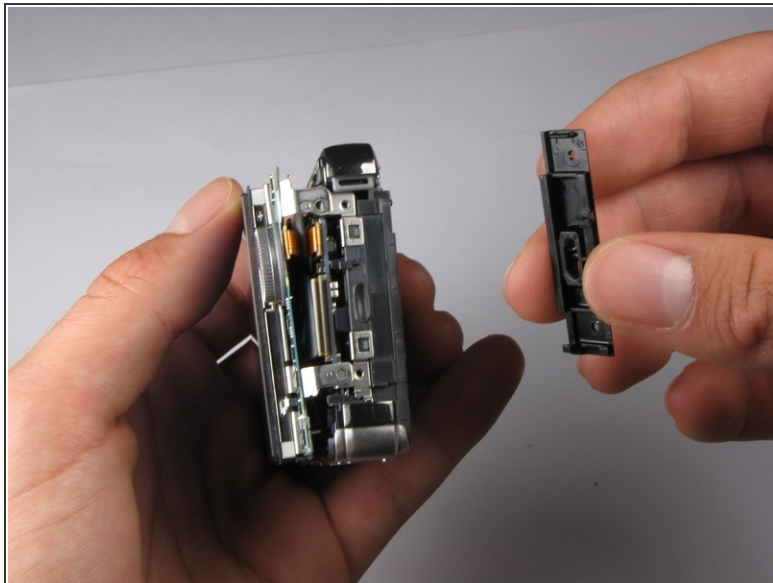
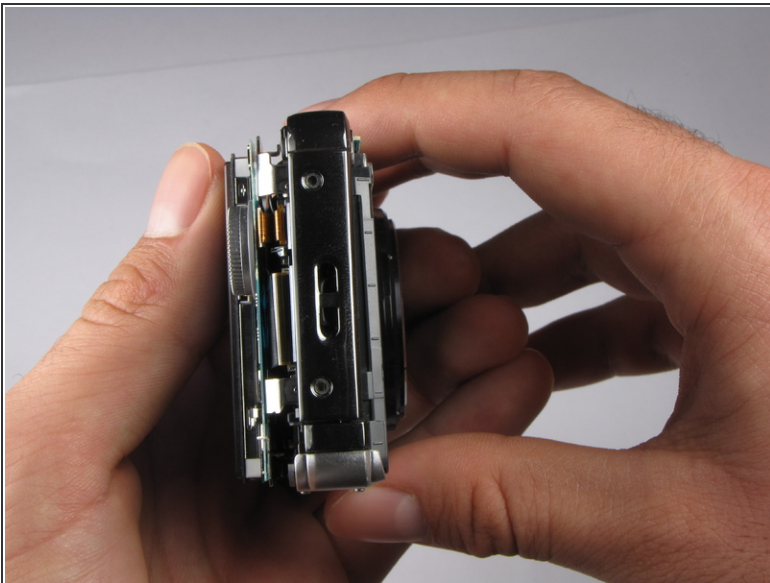
- Turn the camera so that the left side is facing you.
- Pull the left side-panel off of the camera.

Step 8



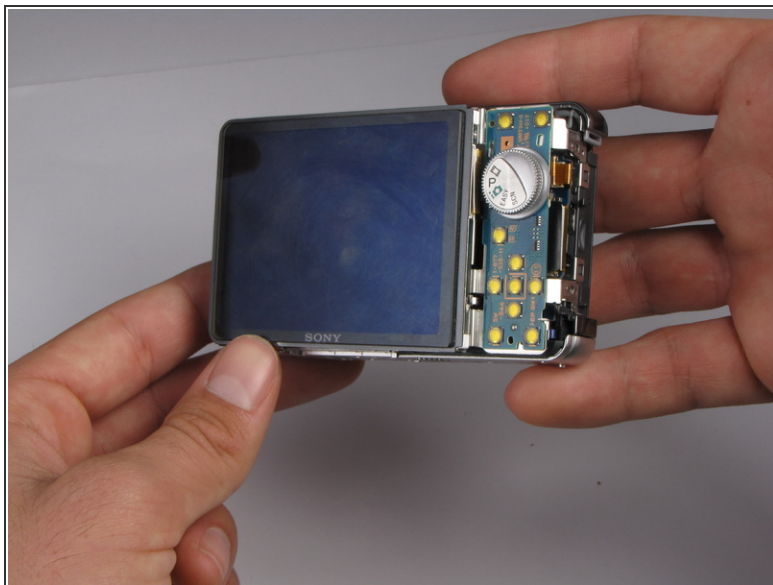
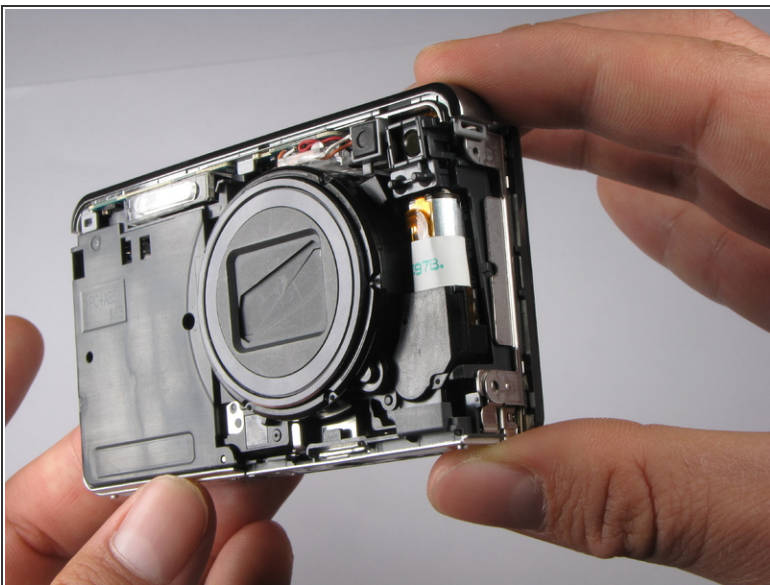
- Turn camera so that the front of the camera is facing you.
 - Pull the front casing directly away from the camera.
- i** The right side panel may fall off when you take the front panel off.

Step 9



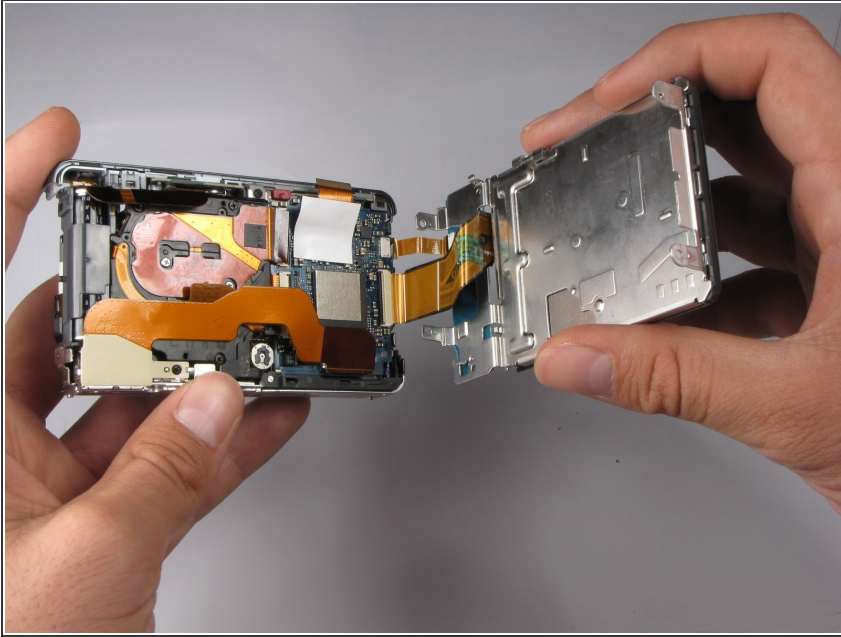
- Turn the camera so that the right side is facing you.
- Pull the right side-panel away from the rest of the camera.

Step 10



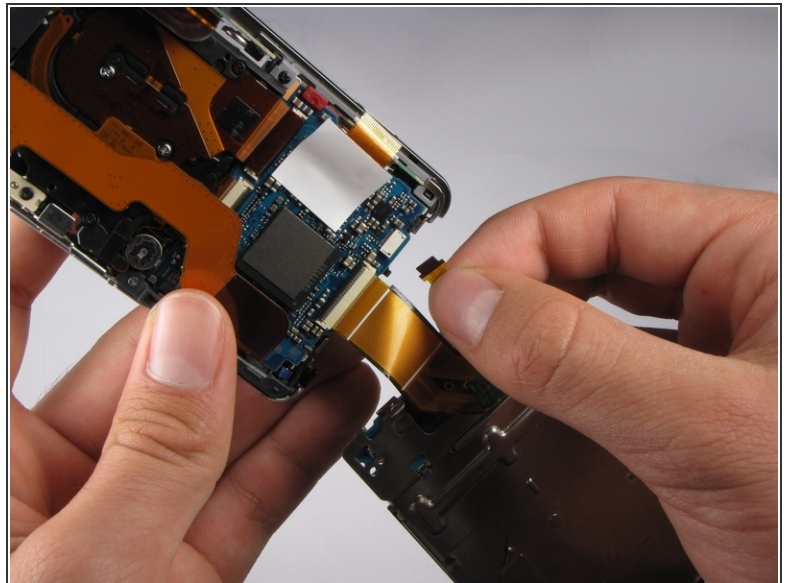
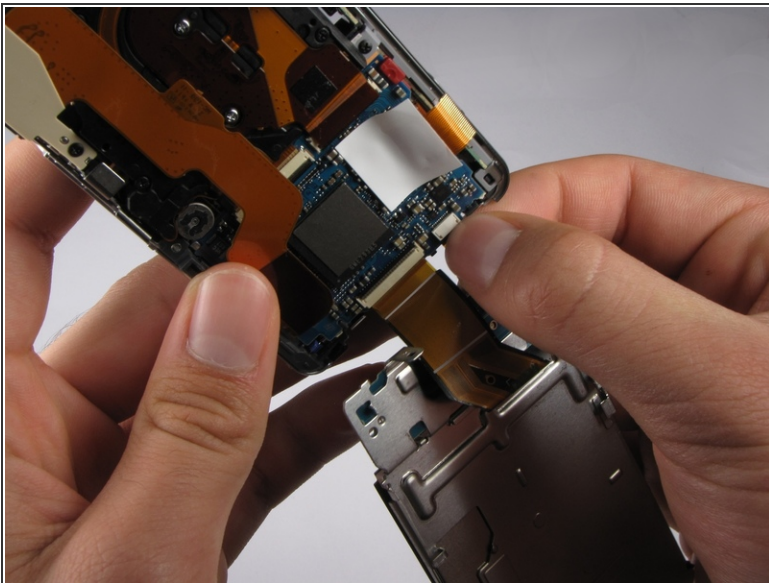
- This is what your camera should look like now that you have removed the casing from all sides.

Step 11 — LCD Assembly



- Gently pull the LCD and its casing away from the motherboard as shown.
- ⓘ Be careful not to rip out any ribbon cables.

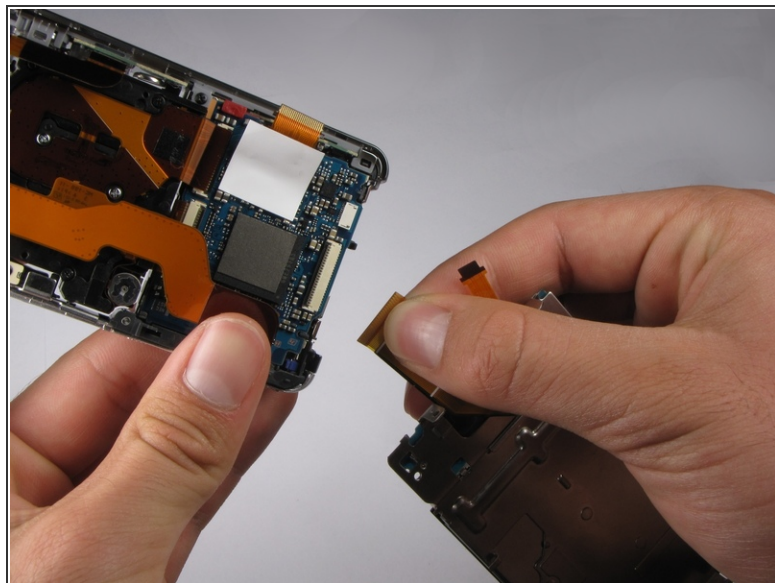
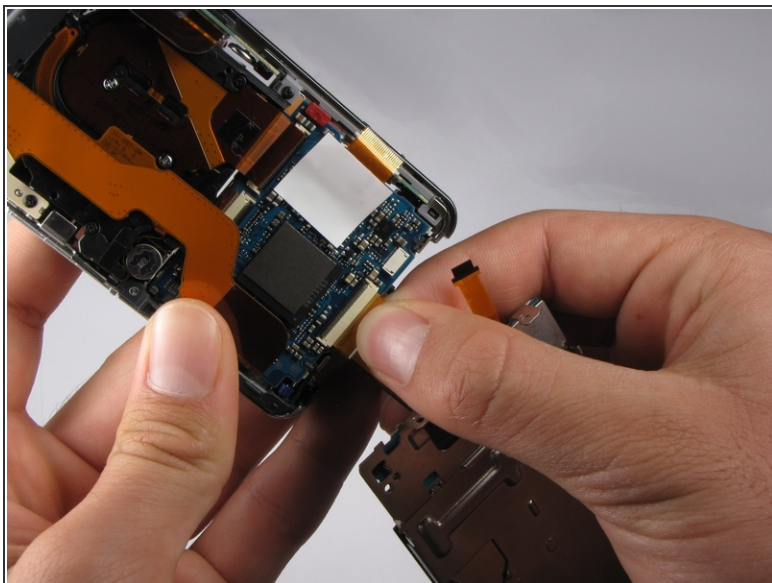
Step 12



- Disconnect the small ribbon-wire by gently pulling on the small ribbon-wire where it connects with the motherboard.

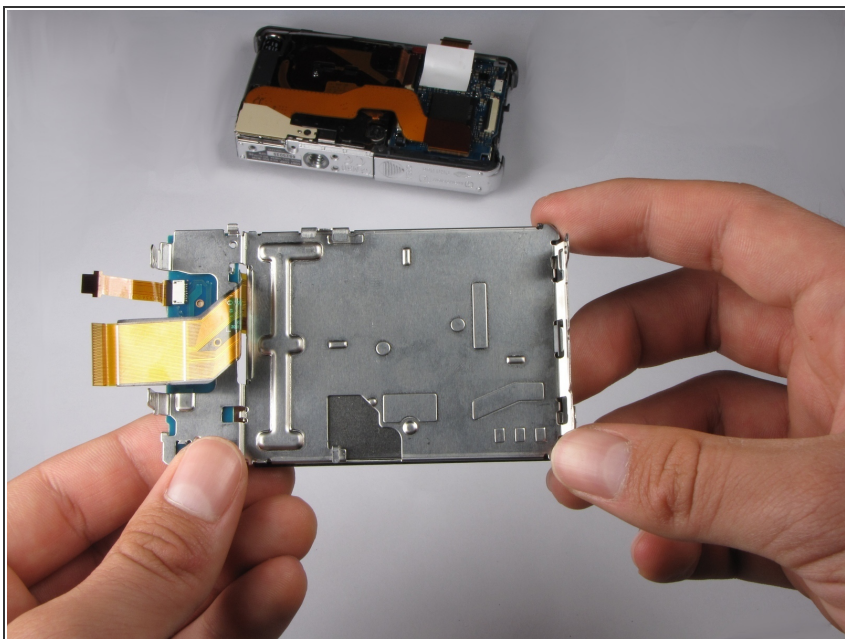
⚠ Do *not* use excessive force to remove the wire because this may cause it to tear.

Step 13



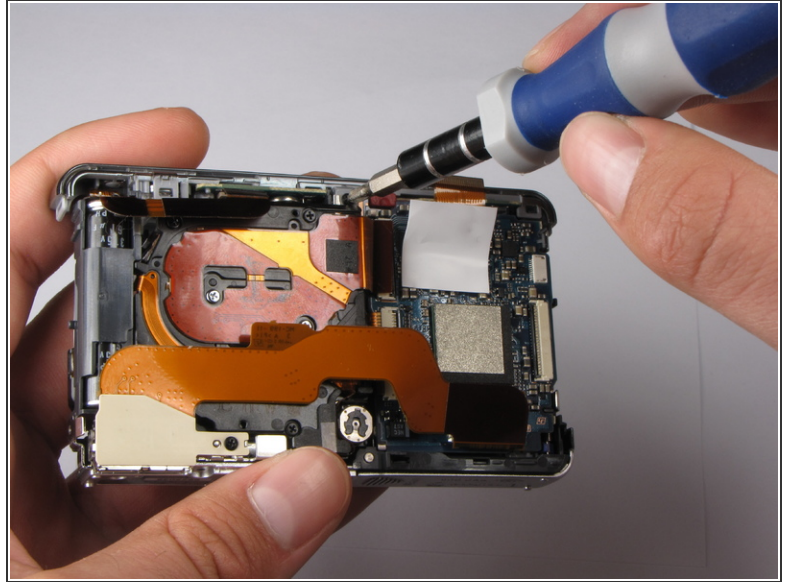
- Disconnect the large ribbon-wire by pulling on the large ribbon-wire where it connects to the motherboard.

Step 14



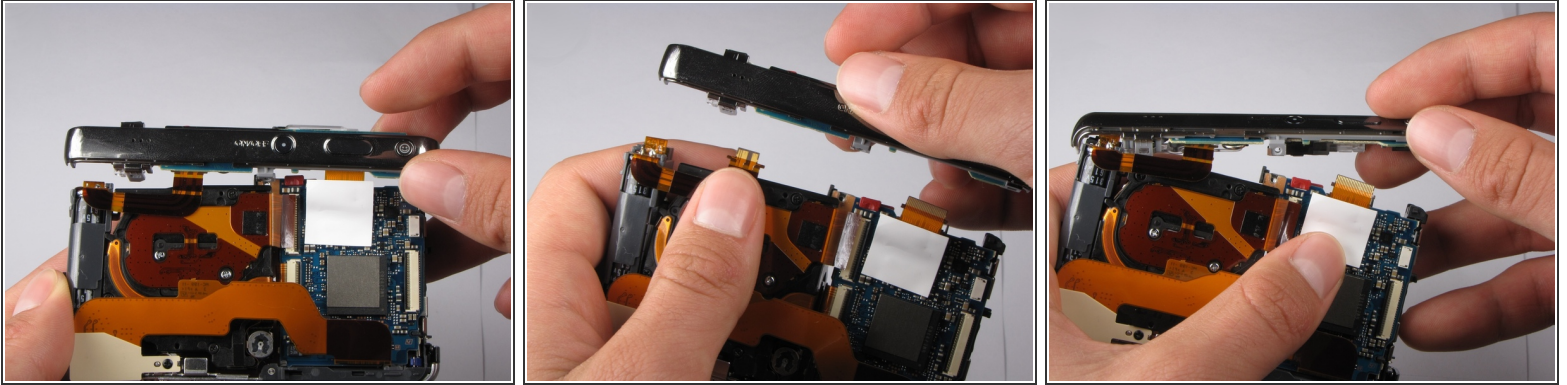
- Pull the LCD and its casing away from the rest of the camera.

Step 15 — Flash Bulb Assembly



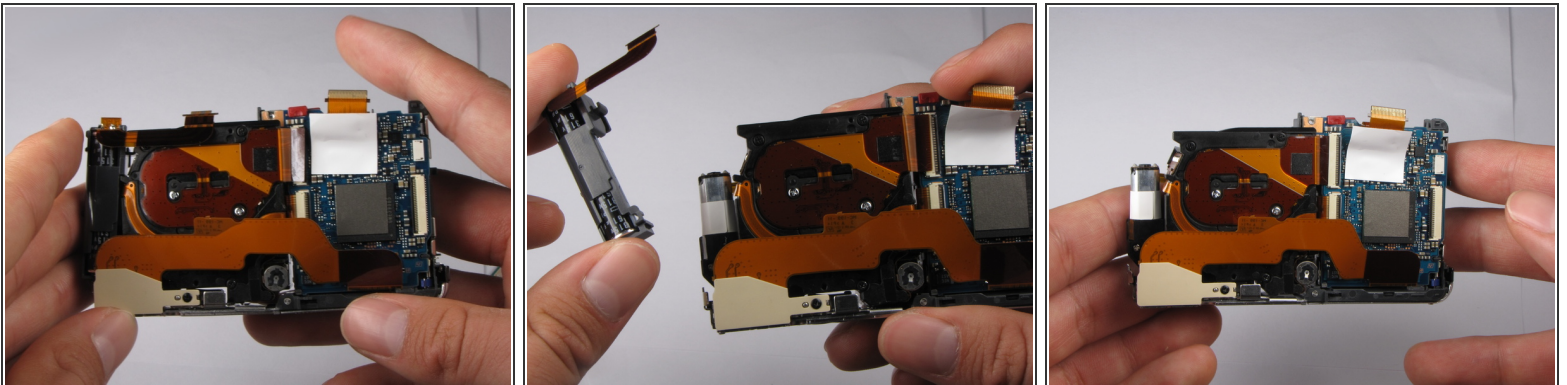
- Turn the camera so the back is facing you.
- Remove the 2.5mm Philips #0 screw at the top of the camera.

Step 16



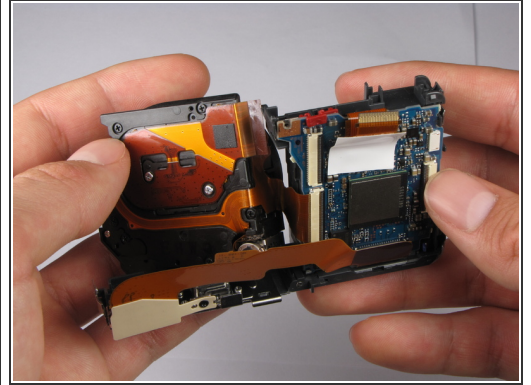
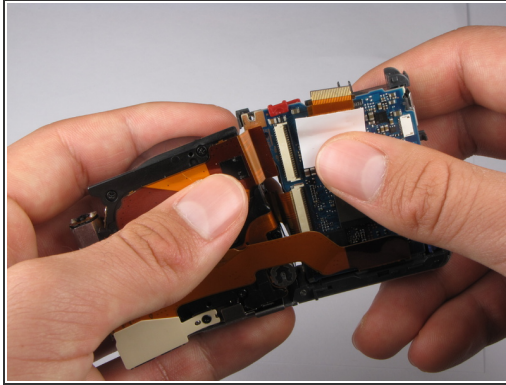
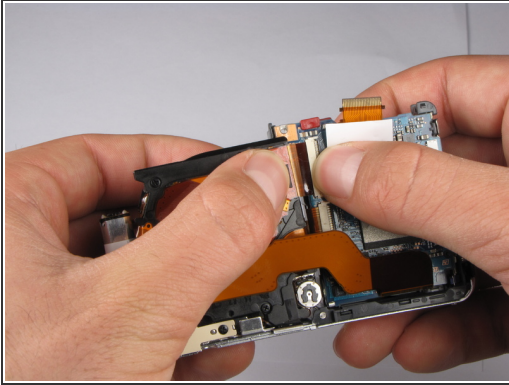
- Tilt top casing up and towards you.
- Carefully remove the right ribbon-wire from the top camera panel by pulling where the wire connects to the top.
- ⓘ Make sure to hold the camera with your thumb on the white square to ensure the ribbon-wire is not disconnected from the motherboard.
- Carefully remove the left ribbon-wire from the top camera panel by pulling where the wire connects to the top.

Step 17 — Lens Assembly



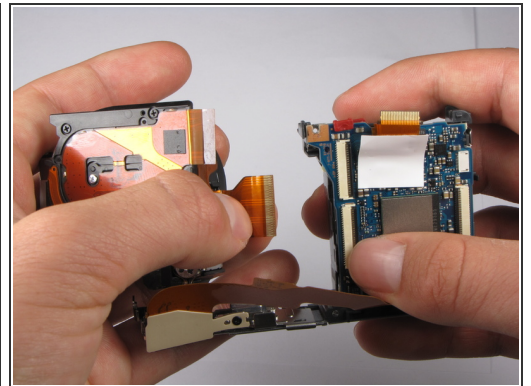
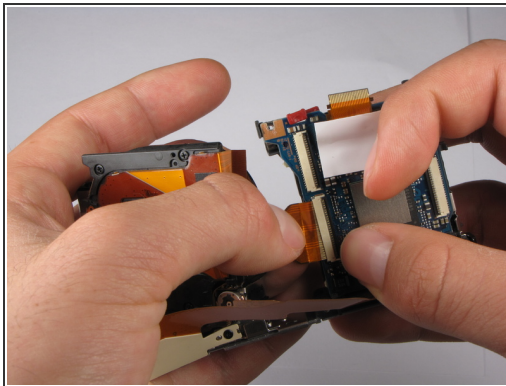
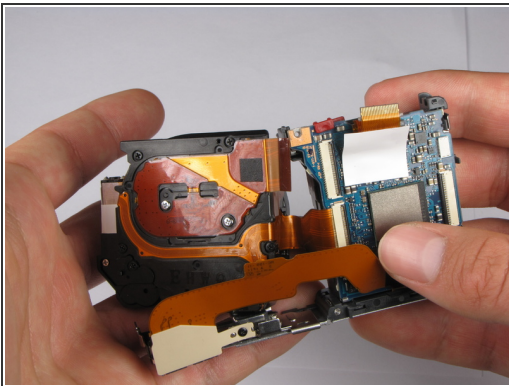
- ⚠ Flash capacitors are dangerous! Be *extremely* careful when removing the capacitor from the camera. You can get shocked *BADLY*!
- Remove the flash capacitor from the lens assembly.
- ⓘ Carefully place the flash capacitor away from where you are working.

Step 18



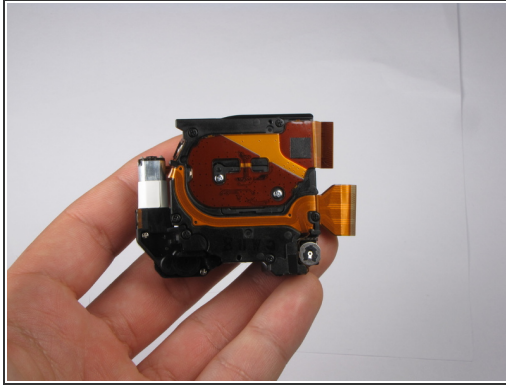
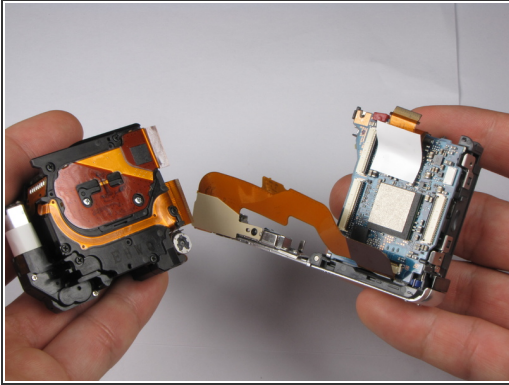
- Carefully disconnect the top ribbon-wire from the motherboard by pulling where the wire connects to the motherboard.

Step 19



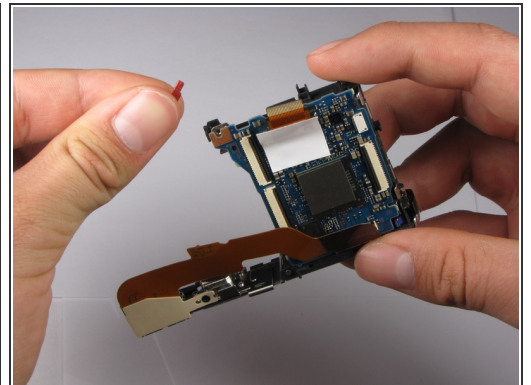
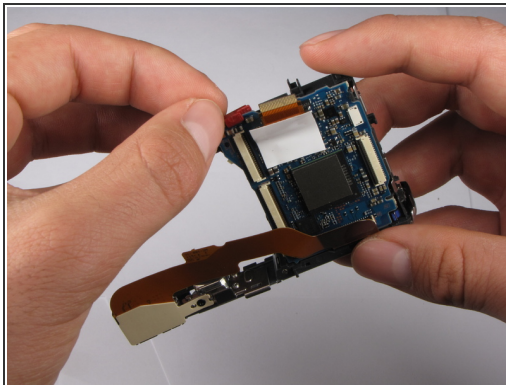
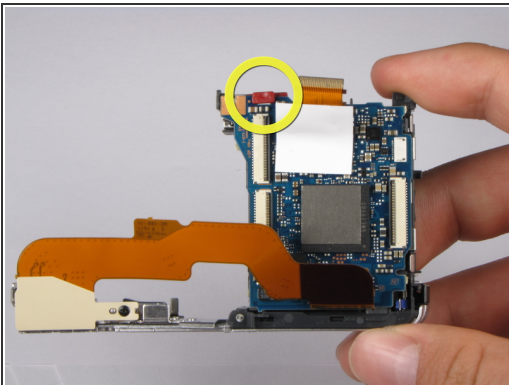
- Disconnect the top remaining ribbon-wire by carefully pulling at the base of where the wire connects to the motherboard.

Step 20



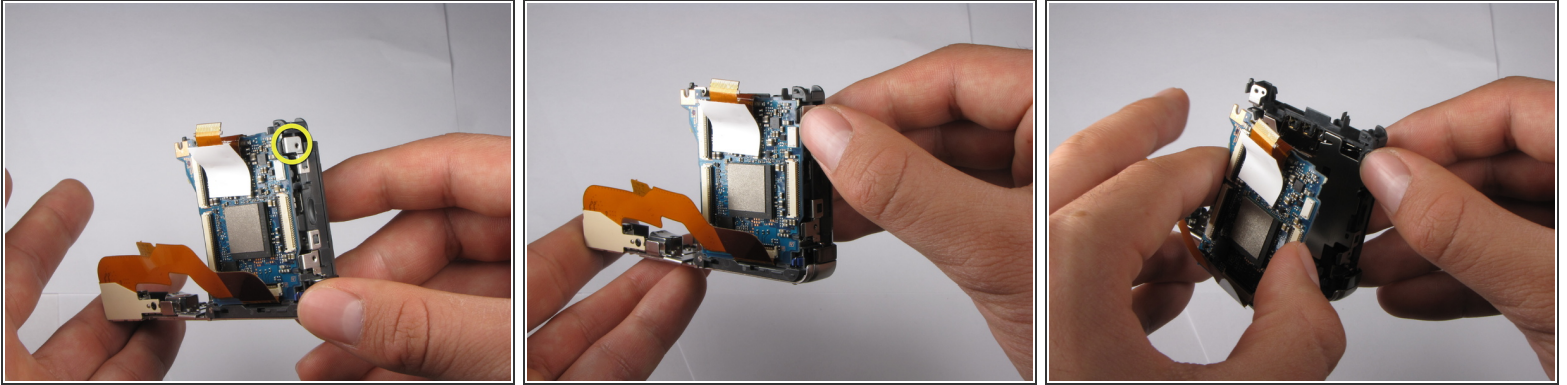
- Pull the Lens Assembly away from the motherboard.
- You have now removed the Lens Assembly from the camera.

Step 21 — Motherboard



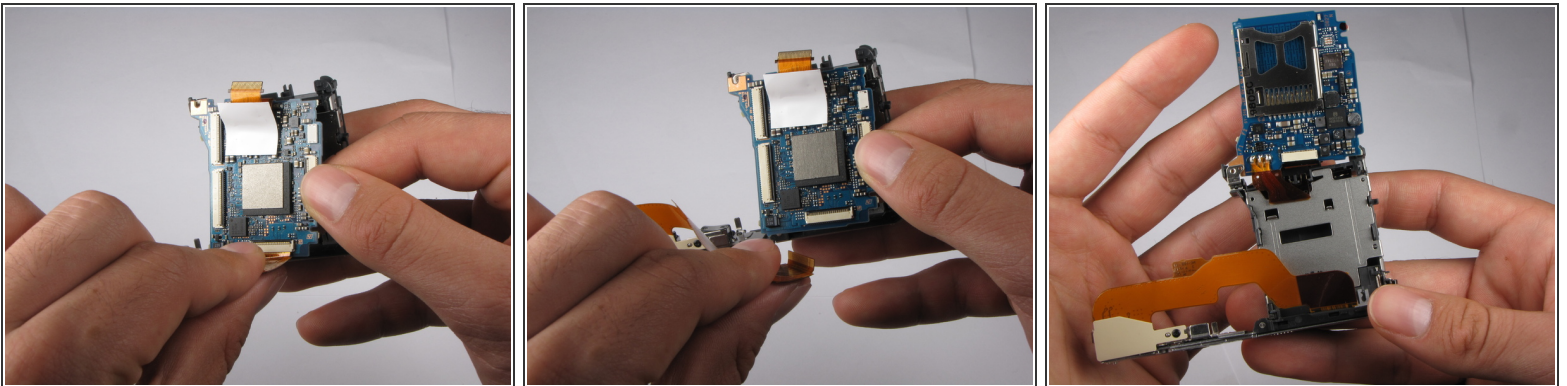
- Remove the red clip that holds the motherboard to its casing.

Step 22



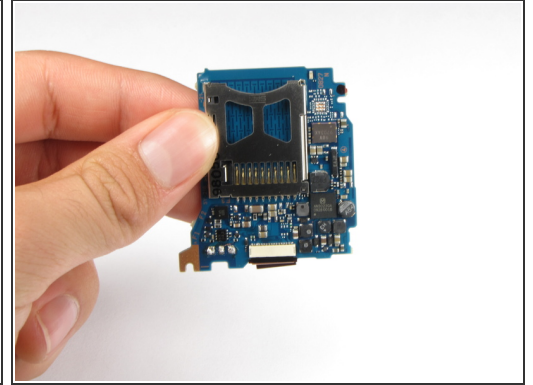
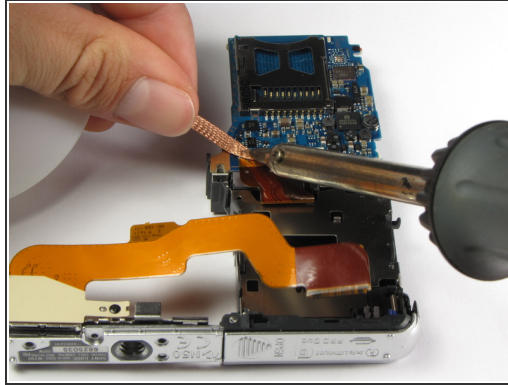
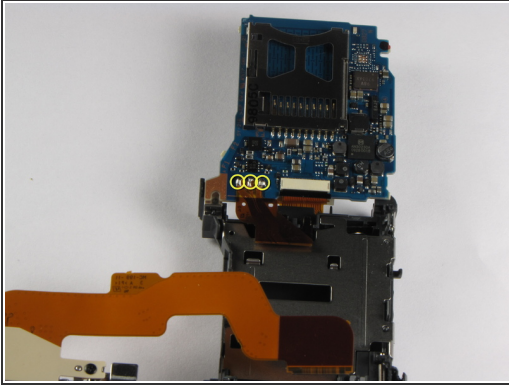
- Pull back the small gray clip located on the right side of the camera to release the motherboard from its casing.

Step 23




- Lift the motherboard from the casing.
 - Carefully remove the large ribbon-wire by pulling the wire where it connects with the motherboard.
- i** In order to completely remove the motherboard, you must desolder the small ribbon wire from the casing.

Step 24



- Flip the motherboard up to turn it over.

 When de-soldering, be careful not to burn yourself or the motherboard. You can damage or destroy the motherboard or the ribbon wire by applying too much heat.

- Carefully de-solder the three connectors from the ribbon wire to the motherboard.
- You have now removed the motherboard.

To reassemble your device, follow these instructions in reverse order.

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